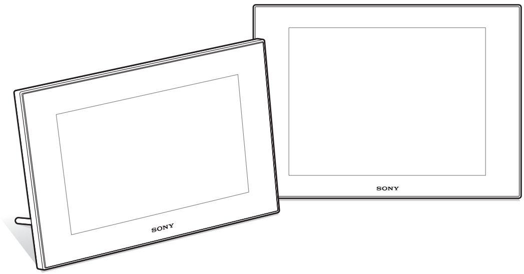
SONY®

4-114-914-11 (1)

Digital Photo Frame

DPF-D70/D80/D100



Operating Instructions

Before operating this unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model and serial numbers are located at the back or bottom.
Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.
Model No. DPF-D70/D80/D100
Serial No. ________________________

These models are not available in every country and region.

MEMORY STICK TM

S-Frame

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

Do not expose the batteries to excessive heat such as sunshine, fire or the like.

CAUTION

Replace the battery with the specified type only. Otherwise, fire or injury may result.

For the customers in the U.S.A.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have any questions about this product, you may call:

Sony Customer Information Services Center

1-800-222-SONY (7669)

The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity

Trade Name:	SONY
Model No.:	DPF-D70
Responsible Party:	Sony Electronics Inc.
Address:	16530 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.:	858-942-2230

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

Trade Name:	SONY
Model No.:	DPF-D80
Responsible Party:	Sony Electronics Inc.
Address:	16530 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.:	858-942-2230

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

Trade Name:	SONY
Model No.:	DPF-D100
Responsible Party:	Sony Electronics Inc.
Address:	16530 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.:	858-942-2230

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

"Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electoronic Industries Alliance (www.eiae.org)."

For the State of California, USA only

Perchlorate Material - special handling may apply, See
www.dtsc.ca.gov/hazardouswaste/perchlorate

Perchlorate Material: Lithium battery contains perchlorate.

For the Customer in Europe

This product has been tested and found compliant with the limits set out in the EMC Directive for using connection cables shorter than 3 meters (9.8 feet).

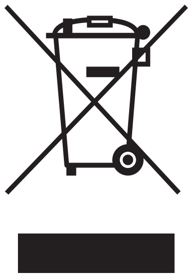
Attention

The electromagnetic fields at the specific frequencies may influence the picture of this digital photo frame.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc) again.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)



This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Continued

Notice for the customers in the countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

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When using photo images with this digital photo frame, pay special attention not to infringe the provisions of the copyright law. Any unauthorized use or modification of there's portrait may also infringe their rights.

For some demonstrations, performances, or exhibits, photography may be forbidden.

Backup recommendations

To avoid potential risk of data loss caused by accidental operation or malfunction of the digital photo frame, we recommend that you save a backup copy of your data.

Information

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

Sony shall assume no responsibility for any accidental or consequential damages or loss of the recording contents which may be caused by use or malfunction of the digital photo frame or memory card.

Notes on LCD screen

- The displayed image on the screen is not identical in picture quality and colors with the printed image because phosphor methods or profiles differ. Please regard the displayed image as just a reference.
- Do not press against the LCD screen. The screen may be discolored and that may cause a malfunction.
- Exposing the LCD screen to direct sunlight for long periods may cause malfunctions.
- The LCD screen is manufactured using extremely high-precision technology, so over 99.99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue or green in color) that constantly appear on the LCD screen. These points are normal in the manufacturing process and do not affect the printing in any way.
- Images may trail across on the LCD screen in a cold location. This is not a malfunction.

On trademarks and copyrights

- S-Frame, Cyber-shot, MEMORY STICK, "Memory Stick", MEMORY STICK, "Memory Stick Duo", MEMORY STICK DUO, "MagicGate Memory Stick", "Memory Stick PRO", MEMORY STICK PRO, "Memory Stick PRO Duo", MEMORY STICK PRO DUO, "Memory Stick PRO-HG Duo", MEMORY STICK PRO-HG DUO, "Memory Stick Micro", MEMORY STICK MICRO, M2, "Memory Stick-ROM", MEMORY STICK-ROM, "MagicGate", and MAGICGATE are trademarks or registered trademarks of Sony Corporation.
- Microsoft, Windows, and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Macintosh and Mac OS are registered trademarks of Apple Inc. in the United States and/or other countries.
- Intel and Pentium are the registered trademarks or trademarks of Intel Corporation.
- CompactFlash is a trademark of SanDisk Corporation in the U.S.A.
- xD-Picture Card or xD-Picture Card™ is a trademark of FUJIFILM Corporation.
- Contains bitmap fonts from Monotype Imaging Inc.
- All other companies and product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, "™" and "®" are not mentioned in each case in this manual.

Notice for users

IN NO EVENT SHALL SONY CORPORATION BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, WHETHER BASED ON TORT, CONTACT, OR OTHERWISE, ARISING OUT OF OR IN CONNECTION WITH THIS MANUAL, THE SOFTWARE OR OTHER INFORMATION CONTAINED HEREIN OR THE USE THEREOF.

By breaking the seal of the envelope of the CD-ROM package, you accept all the terms and conditions of this agreement. If you do not accept these terms and conditions, please return this disk envelope unopened, along with the rest of the package, immediately to the dealer where you obtained it.

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Please note that unauthorized duplication or modification of portraits or copyrighted work could infringe the rights reserved by rights holders.

On the illustrations and screen shots used in this manual

The illustrations and screen shots used in this manual are of the DPF-D70 unless noted otherwise.

Table of Contents

Before operation

Basic operations

Advanced operations

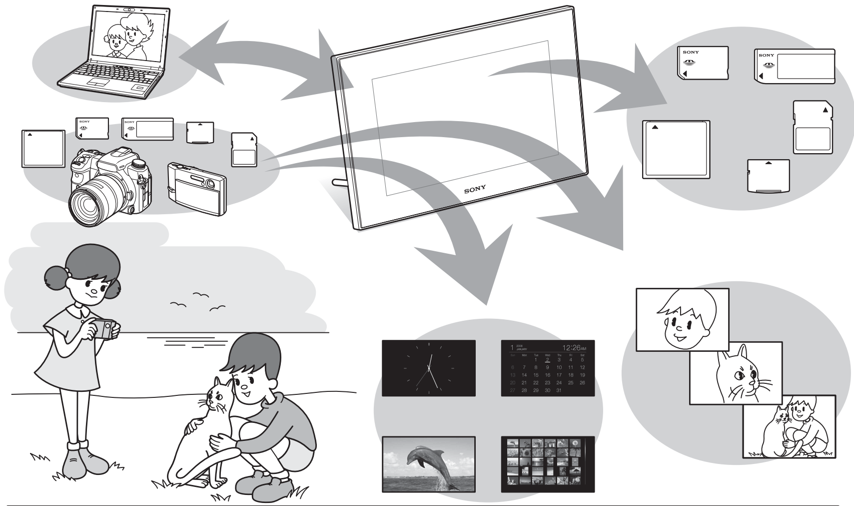
Connecting to a computer

Error messages

Troubleshooting

Additional information

Enjoy your photo frame in various ways



Easy display of images in a memory card

Various display functions

In addition to slideshows, you can enjoy various display modes easily including the single image, index, clock, and calendar modes. (→page 19)

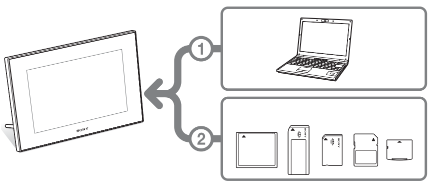
Adding important images to an album (saving to the internal memory)

Images added to the album are saved in the internal memory. You can also export these images to a memory card. (→page 25)

Connecting to your computer

Images can be copied from a computer easily. You can also save images in the album to a computer as a backup. Images can also be exchanged with a memory card. (→page 33)

Input to the photo frame



As shown on the left, the photo frame gives priority to the connection with computer if computer and memory cards are connected/ inserted to the photo frame. If multiple memory cards are inserted, the images of the memory card you inserted first are displayed.

Features

The Sony DPF-D70/D80/D100 is a digital photo frame for easily displaying images taken with a digital camera or other device without using a computer.

■ Support for various memory cards*

Supports various memory cards used by digital cameras and other devices, such as a “Memory Stick”, CompactFlash card, SD memory card, and xD-Picture Card. Just insert a memory card removed from a digital camera or other device, then you will be able to view the images immediately.

■ Various modes

The displayed image can be switched automatically as though you are turning the pages of an album yourself. You can select from various modes including just images, clock, and calendar view. You can also change playback settings such as the playback order.

■ Various display functions

You can enjoy various view modes, such as displaying an analog clock, digital clock or calendar. And the photo frame can display images on single image display, index display, zoom in/zoom out or fit to screen mode.

■ Automatic rotation of images

The photo frame automatically rotates images to their proper orientation. Images are also automatically rotated when the photo frame is set in either the portrait or landscape position. (Menu screen is not rotated.)

■ Easy operation by remote control

■ Adding images to internal memory

The images you add to the album are saved to internal memory.

■ Exporting images

You can export images in the album to your memory card.

■ Connecting to a computer to exchange the images

* We do not guarantee proper operations for all types of devices.

Checking included items

Make sure that the following items are included.

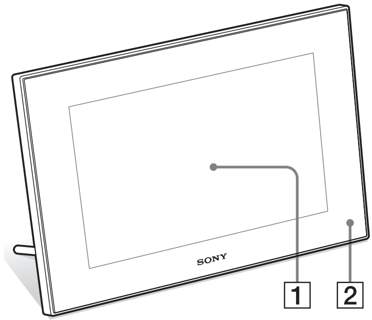
- Digital photo frame (1)
- Remote control (1)
- AC adaptor (1)
- Operating Instructions (this manual) (1)
- Warranty (1)
  (In some regions, the warranty is not supplied.)

Identifying the parts

For details, see the pages indicated in the parentheses.

The illustrations are of the DPF-D70. The locations and names of buttons and connectors of the DPF-D80/D100 are identical to those of the DPF-D70, although the LCD screen size is different.

Front



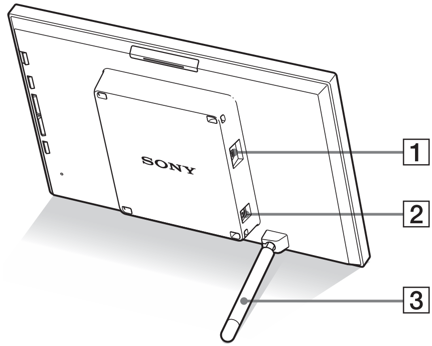
1 **LCD screen**

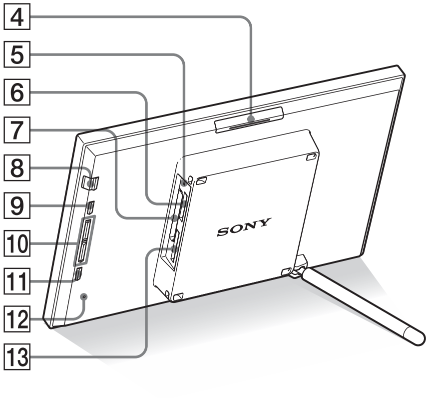
2 **Remote sensor**
When using the supplied remote control, point it at this sensor.

Before operation

Continued

Rear





1 USB miniB connector (→page 33)
Connect a USB cable when you want to use the photo frame with a computer.

2 **DC IN 12 V jack (→page 13)**
Insert the plug of the supplied AC adaptor to this jack, and connect to the wall outlet.

3 **Stand (→page 14)**

4 **VIEW MODE button**

5 **Access lamp**

6 **"Memory Stick PRO" (Standard/Duo) slot (→page 17)**

7 **CompactFlash card/Microdrive slot (→page 17)**

8 **⏻ (on/standby) button/(standby) indicator**

9 **MENU button**
Displays the menu.
The function such as [Slideshow], [Rotate], [Add to album] and [Clock] can be executed from the main body of photo frame.

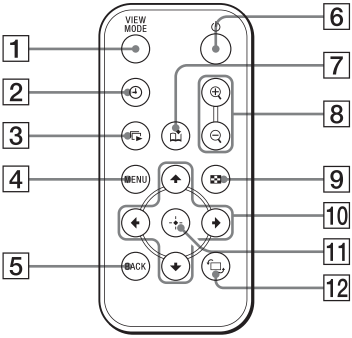
10 **Direction (↓/↑) buttons**
These buttons move the cursor.

11 **ENTER button**

12 **Reset switch**
When this switch is pushed, the Date/time setting returns to its factory default setting. Use thin object such as a pin to push the switch.

13 **SD memory card/MMC/xD-Picture Card slot (→page 17)**

Remote control



1 **VIEW MODE button**

2 **(clock) button (→page 22)**

3 **(slideshow) button (→page 20)**

4 **MENU button**

5 **BACK button**

6 **(on/standby) button**

7 **(add to album) button (→page 25)**

8 **(zoom in)/ (zoom out) buttons (→page 24)**

9 **(index) button (→page 22)**
This button switches from the image preview screen to index view screen.

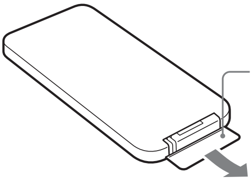
10 **Direction (←/→/↓/↑) buttons**

11 **(enter) button**

12 **(rotation) button (→page 24)**

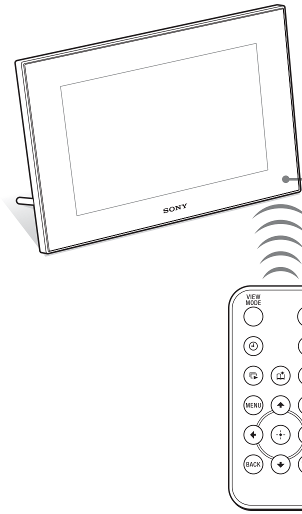
Preparing the remote control

The supplied lithium battery (CR2025) has already been inserted into the remote control. Pull out the protective sheet before use as shown in the figure.



Using the remote control

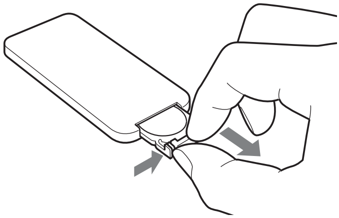
Point the top end of the remote control towards the remote sensor on the photo frame.



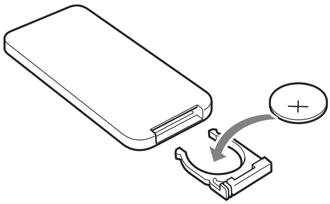
Replacing the battery of the remote control

If the remote control stops working, replace the battery (CR2025 lithium battery) with a new one.

1 Pull out the battery holder.
While pressing in the tab of the battery holder, pull out the battery holder.



2 Remove the old battery from the battery holder and then insert a new battery.
Insert the battery so that "+" is facing upwards.



3 Reinsert the battery holder into the remote control.

WARNING

Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

Notes

- When the lithium battery becomes weak, the operating distance of the Remote conrol may shorten, or the Remote control may not function properly. In this case, replace the battery with a Sony CR2025 lithium battery. Use of another battery may present a risk of fire or explosion.

- Using a battery other than the specified one may result in the battery rupturing.
- Dispose of used batteries as specified by the local authorities.
- Do not leave the remote control in a very hot and humid place.
- Take care that no foreign objects enter inside the remote control when you, for example, replace the battery.
- Incorrect use of the battery may cause leaking and corrosion.
  - Do not recharge the battery.
  - When the remote control will not be used for a long period of time, remove the battery from the remote control to prevent leaking and corrosion.
  - Incorrectly inserting, shorting, dismantling, or heating the battery, or throwing it into a fire may cause the battery to rupture and leak.

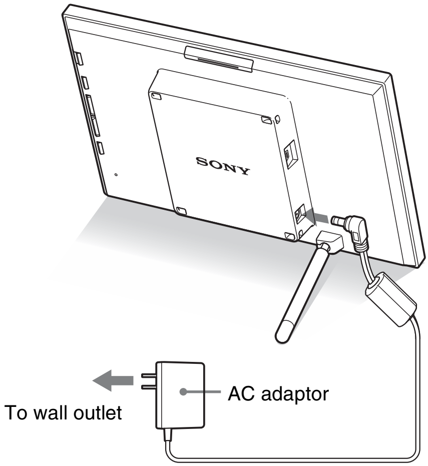
About descriptions in this manual

The operations described in this manual are based on remote control operation. When an operation is performed differently with the remote control and buttons on photo frame, it will be explained in a tip.

Connecting to the AC power source

1 Insert the plug of the AC adaptor into the DC IN 12 V jack on the rear of the photo frame.

2 Connect the AC adaptor to the wall outlet.



Notes

- A socket outlet should be as close as possible to unit and easily accessible.
- Do not place the photo frame in an unsteady location such as on an uneven table or tilted surface.
- Connect the AC adaptor to an easily accessible wall outlet close by. If trouble occurs while using the adaptor, immediately shut off the power by disconnecting the plug from the wall outlet.
- Do not short the plug of the AC adaptor with a metal object. Doing so may cause a malfunction.
- Do not use the AC Adaptor placed in a narrow space, such as between a wall and furniture.
- Insert the plug of the AC adaptor firmly. If the connection is loose, the photo frame may turn off when it is moved.

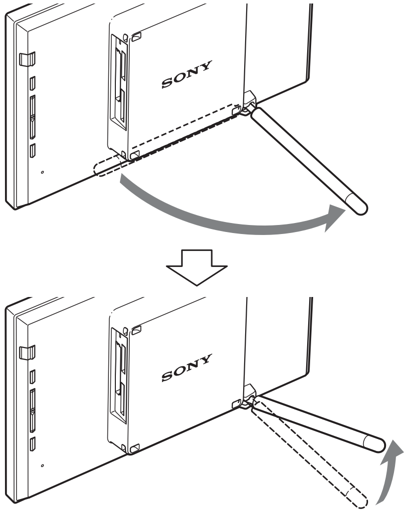
Continued

- After use, remove the AC adaptor from the DC IN 12 V jack of the photo frame, and remove the AC adaptor from the outlet.
- This power unit is intended to be correctly orientated in a vertical or floor mount position.

Setting the stand

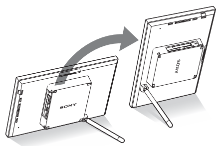
Opening the stand

Set the photo frame with opening the stand as below.

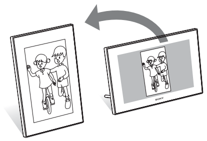


Setting to portrait or landscape orientation

You can set the photo frame to portrait or landscape orientation by rotating it without moving the stand.



When the photo frame is placed in the portrait orientation, the image is also automatically rotated to its proper orientation.



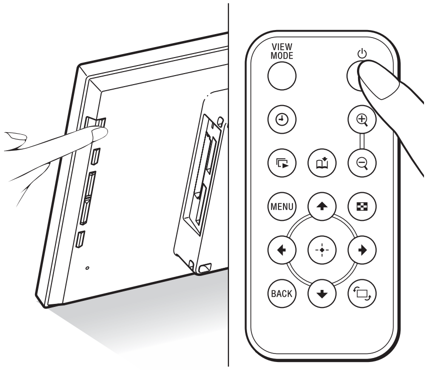
Notes

- Close the stand when you carry the photo frame.
- Check whether the stand is stable. If the stand is not set properly, the photo frame may fall over.
- When the photo frame is rotated to the portrait orientation, the menu, image information and index display are not rotated.

Turning the photo frame on

Turning on the power

Press ⏻ (on/standby) on the photo frame or remote control to turn on the power, and the standby indicator turns into green from red.



Note

The standby indicator lights red, when you connect the AC adaptor to the photo frame.

Turning off the power

Hold ⏻ (on/standby) on the photo frame or remote control until turning off the power. The standby indicator turns into red from green.

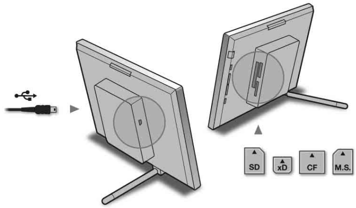
Note

Do not disconnect the AC adaptor from the photo frame before the standby indicator turns into red. Doing so may damage the photo frame.

Continued

Operations in an initial state

When the photo frame is turned on without a memory card connected, the initial display below appears on the screen.



When the photo frame is not operated for 10 seconds, demo mode is displayed. If any other button than the power button is pressed, the screen returns to initial display.

First, press MENU during initial display, and then set the date and time.

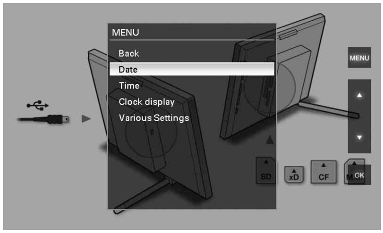
Setting the clock

The clock of the photo frame needs to be adjusted in order to display an accurate time in the clock and calendar view modes.

1 Press MENU on the remote control.
The menu screen is displayed.

2 Press ↓/↑ to select [Various settings] and then press ⊕ to display the Various settings screen.

3 Press ↓/↑ to select [Date/time settings] and then press ⊕.
The Date/time settings screen is displayed.



4 Select the format of the date.
① Press ↓/↑ to select [Date Display Order] and then press ⊕.
② Press ↓/↑ to select a format and then press ⊕.
- Y/M/D
- M/D/Y
- D/M/Y

5 Adjust the date.
① Press ↓/↑ to select [Date] and then press ⊕.
② Press ↓/↑ to select a value and then press ⊕.

6 Adjust the time.
① Press ↓/↑ to select [Time] and then press ⊕.
② Press ↓/↑ to select a value and then press ⊕.

Set the time in the order of hour, minute, and second.

7 Set the day to start the week for the calendar.

You can set the day that appears on the very left when the calendar is displayed.

①Press ↓/↑ to select [First Weekday] and then press ⊕.

②Press ↓/↑ to select [Sunday] or [Monday] and then press ⊕.

8 Press MENU.

The menu screen is closed.

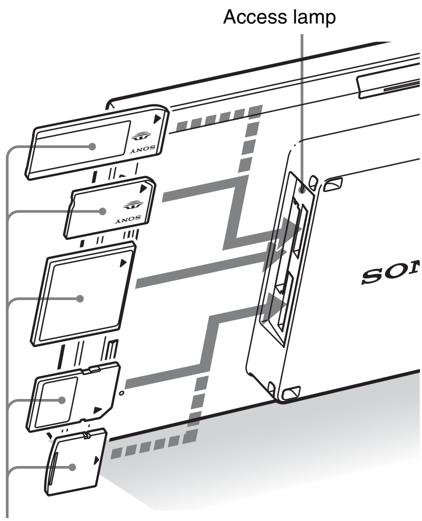
Inserting a memory card and viewing images

This section describes inserting a memory card and general operations for displaying images in a slideshow.

Inserting a memory card

Insert a memory card firmly into the corresponding slot with its label side facing toward you (when taking your position on the rear side of the photo frame).

For details on the memory cards you can use with this photo frame, see pages 41 to 43.



Insert a memory card firmly into the corresponding slot with its label side facing toward you. The slot order from the top is "Memory Stick" ("Memory Stick Duo"), CompactFlash card, SD memory card and xD-Picture Card.

To remove a memory card

Remove a memory card from a slot in the opposite direction from which it was inserted.

Continued

Notes

- When inserting the memory card, it will only insert the portion of the way, so do not try to force it as this could damage the memory card and/or photo frame.
- This photo frame has "Memory Stick" standard and Duo size compatible slot, so you do not need a Memory Stick adaptor.
- The SD memory card/xD-Picture Card dual-purpose slot automatically detects the card type.
- Before using a memory card, see "About the memory cards" on page 41.

Display priority of images

If a memory card is inserted, the images of the inserted memory card are displayed automatically. To manually change the memory card to be displayed, specify it in the [Select device] menu (page 24).

The photo frame displays the images of the memory card in the following priorities.

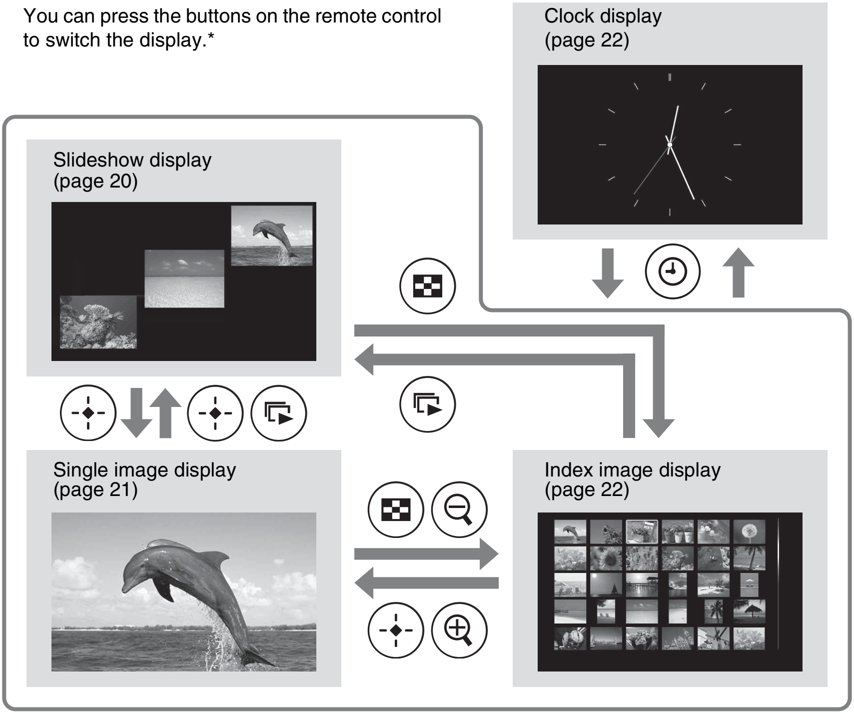
- **If multiple memory cards are inserted when the photo frame is turned on,** the images of the first memory card you inserted take priority and are displayed.
- **If multiple memory cards are inserted during the photo frame is turned off,** the priority order for display is as follows.
  "Memory Stick" ➜ CompactFlash card
  ➜ SD memory card / xD-Picture Card
- **If no memory card is inserted,** the images saved to the album in the internal memory are displayed.

Note

The photo frame can display JPEG image files compatible with DCF format or RAW files taken by a Sony digital camera. Any other file (such as files made or edited by using computer or RAW files taken by digital cameras other than Sony digital camera etc.) may not be displayed.

Displaying images

■ Overview of display



Tips*

- If the power is on and no memory card is inserted, the images in internal memory are displayed. If no images are saved to internal memory, demonstration mode starts automatically. Demonstration mode ends, if a memory card is inserted.
- The display mode stays unchanged once you turn the photo frame off and on again. However, rotated images return to its original direction. If you want to keep an image rotated, save image rotated with the digital camera.

Basic operations

Continued

■ Slideshow display

Images in a memory card are automatically displayed one after another.

Tip

For details on playback order, see page 30.

To start the slideshow

- To start a slideshow from single image, clock, or index image display, press (slideshow).

Tip

To perform this operation from the photo frame, press -✦- ENTER on the single image display mode.

There are several slideshow modes. Pressing VIEW MODE changes the modes in the following order.

Tip

You can set the interval on the single view and calendar view mode in the [Slideshow Settings] menu (page 30). On the single view mode, you can also set the effect and order in this menu.

Single view mode

Images are displayed in a single screen one after another with the effect selected in the [Slideshow Settings] menu.



Multiple image mode

Displays multiple images at same time.



Clock view mode

Displays images with shooting date and time.

Note

The present date and time cannot be displayed.



Calendar view mode

Displays images one after another while showing a calendar.

Note

The present date and time is displayed.



Random view mode

Displays images while randomly switching between the above four slideshow patterns.

Notes

- The [Effect] setting in the [Slideshow Settings] menu is applied only when slideshow is displayed on the single view mode.
- The [Delete] menu cannot be used during the slideshow display. If you want to delete images, switch the display to the single image display.

■ Single image display

To display an image you want to display

- During a slideshow, press ⊕ at an image you want to display.
- In the index image display, press ←/→/↓/↑ to select an image you want to display and then press ⊕. You can also press ⊕ (zoom in).

Tip

To perform this operation from the photo frame, press ✦ ENTER at an image you want to display during a slideshow. In the index image display, press the direction buttons to select an image and then press ✦ ENTER.

Pressing VIEW MODE changes the modes in the following order.

Tip

You can set the image display mode except image information mode with [Display Mode] in the [Various settings] menu (page 31). Not all images are able to be [Fit to screen].

Entire image mode

Displays an entire image in the screen. You can switch the images to display by pressing ←/→.



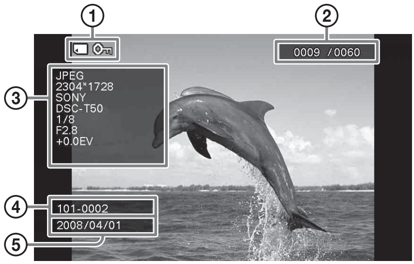
Fit to screen mode

Displays an image over the whole screen. You can switch the images to display by pressing ←/→.



Image information mode

Displays image information such as the image number, file name, and shooting date. You can switch the images to display by pressing ←/→.



The following information is displayed.

① Input/setting indications
Input indications and settings information for an image are displayed.

Icons	Meaning
	"Memory Stick" input
	SD Memory Card input
	CompactFlash input
	xD-Picture Card input
	Internal memory input
	Protect indication
	Associated file indication (Displayed when there is an associated file such as a motion file or a miniature e-mail image file.)

Continued

② Image display order/Total number of images
③ Image details
- File format (JPEG, RAW)
- Number of pixels (width × height)
- Manufacturer name of image input device
- Model name of image input device
- Shutter speed (e.g.: 1/8)
- Aperture value (e.g.: F2.8)
- Exposure value (e.g.: +0.0EV)

④ Image number (folder-file number)
This is displayed if the image is DCF compliant.
⑤ Shooting date

Notes

- When DCF-compliant images with associated file (small image or video etc. for e-mail) are added to album, exported, or deleted, this operation is not applied to the associated file.
- When images are added to album with [Album] setting from [Image file size] menu, images more than 1,600 × 960 dots are saved at optimized size. Therefore, the shooting information of the saved image is different from the original image.
- When shooting information is not recorded in an image, the modification date is displayed as the shooting date.

■ Index image display

The list of images in the selected memory card or internal memory is displayed.

To show the index image display from a slideshow, clock, or single image display

Press (index). You can also press (zoom out) from the single image display.

Tip

To perform this operation from the photo frame, select the index image display in the menu on the single image display.

Press VIEW MODE to switch the modes of the index image display.

Small thumbnail mode

Displays a list of small thumbnails (5 rows × 6 columns).

You can select an image by pressing ←/→/↓/↑.



Large thumbnail mode

Displays a list of large thumbnails (3 rows × 4 columns).

You can select an image by pressing ←/→/↓/↑.



Note

In the index image display, images will not be automatically rotated when the photo frame is set to the portrait orientation.

Tip

Thumbnail is a small-sized image for index that is recorded in the pictures taken by digital camera.

■ Clock display

Displays a clock or calendar. No image is displayed.

To display the clock display from slideshow, single image, or index image display

Press (clock) on the remote control.

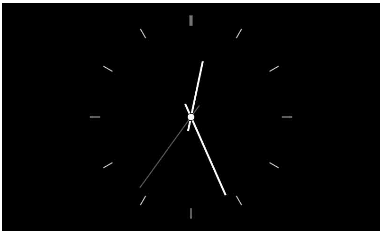
Tip

To perform this operation from the photo frame, select the clock display in the menu on the single image display.

Press VIEW MODE to switch the modes of the clock display.

Analog clock mode

Displays the time on analog clock.



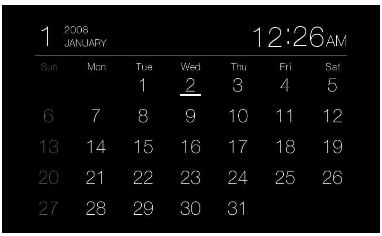
Digital clock mode

Displays the date and time on digital clock.



Calendar mode

Displays a calendar for the current month. You can press ↓/↑ to display a calendar for the previous or next month. You can also set the first day of the week for the calendar in the [Date/time settings] menu.



Tip

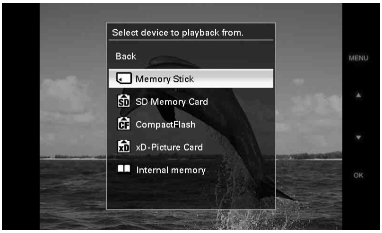
There are black and white background types for each of analogue clock, digital clock and calendar mode. You can select one from six type of the clock display mode.

Specifying the playback device

You can specify the memory card to be displayed.

1 Press MENU.
The menu is displayed.

2 Press ↓/↑ to select [Select device] and then press ⊕.
The screen for selecting a device is displayed.



Tip

Insert the device at this procedure if no device is inserted.

3 Press ↓/↑ to select the device you want to display and then press ⊕.
The images of the selected device are displayed.

Tip

To perform this operation from the photo frame, press MENU, press the direction buttons to select the device you want to display, and then press ⊕ ENTER.

Adjusting the image size and position

Enlarging an image

1 To enlarge an image, press ⊕ (zoom in) on the remote control. To reduce an enlarged image, press ⊖ (zoom out).
Each press of the ⊕ button enlarges the image further. You can move an enlarged image up, down, left, and right.

Notes

- Enlarging an image may reduce the quality depending on the image size.
- It is not possible to enlarge an image with buttons on the photo frame.
- Depending on the image size, an image can be enlarged from 2 to 5 times.

Rotating an image

1 Press (rotation) on the remote control.
Each press of the button rotates the image 90 degrees counter-clockwise.

To perform the operation from the menu of the remote control

1 Press MENU.
The menu is displayed.

2 Press ↓/↑ to select [Rotate] and then press ⊕.

The Rotate menu is displayed.



3 Press ↓/↑ to select the direction to rotate and then press ⊕.

- ⟳ :
  Rotates the image 90 degrees clockwise.
- ⟲ :
  Rotates the image 90 degrees counter-clockwise.

4 Press ↓/↑ to select [OK] and then press ⊕.

Tip

To perform this operation from the photo frame, press MENU, press the direction buttons to select the item, and then press ✣ ENTER.

Notes

- An enlarged image cannot be rotated.
- This function rotates the displayed image. When you turn off the photo frame or pull out and insert a memory card, rotated image returns to its original direction.

Adding to the internal memory

You can use the photo frame as the digital album with saving important images in the internal memory.

Tip

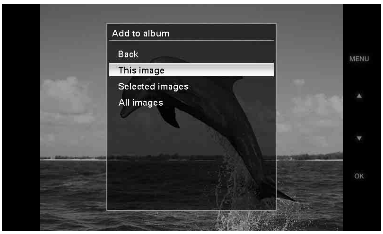
In [Image file size] of the menu, you can preset whether to optimize the size of images or save images as is without compressing them when you save them to the internal memory.

When [Image file size] is set to [Album], up to approx. 500 images can be added to the album. When set to [Original], the number of images that can be saved may vary depending on the original image file size.

1 Press ⊞ (add to album) on the remote control.

The Add to album menu is displayed.

Single image display

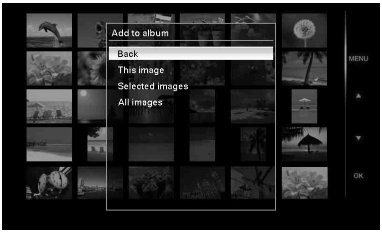


Slideshow display



Continued

Index image display



Tips

- To perform this operation from the menu, press MENU on remote control press ↓/↑ to select [Add to album], and then press ⊕.
- Images in the internal memory cannot be added to the album.

2 Press ↓/↑ to select [This image], [Selected images] or [All images] and then press ⊕.

[This image]: Adds the image currently displayed. (This item cannot be selected on the slideshow display.)

[Selected images]: Adds the selected images from the index display.

[All images]: Adds all images in the device displayed.

[Selected images] shows the images in the device which are currently displayed as index view.

If you select [This image] or [All images], go to step 4 to complete adding the image to the internal memory.

3 If you selected [Selected images], choose the image you want to add.

① Press ←/→/↓/↑ to select the image to add to the album and then press ⊕. Check mark will be placed on each selected image. Repeat this operation to add multiple images at the same time.



To cancel the selection, select images to cancel and then press ⊕ to delete check mark.

② Press MENU.
The confirmation screen whether to save or not to the internal memory is displayed.

4 Press ↓/↑ to select [Yes] and then press ⊕.

The image is saved to the internal memory.

Exporting an image

You can export the images of the internal memory to a memory card.

1 Press MENU.

The menu is displayed.

2 Press ↓/↑ to select [Export] and then press ⊕.

The Export menu is displayed.



3 Press ↓/↑ to select [This image], [Selected images] or [All images] and then press ⊕.

[This image]: Exports the image currently displayed or the image chosen at the index view. (This item cannot be selected on the slideshow display.)

[Selected images]: Exports the selected image from the index display.

[All images]: Exports all images in the album.

Selecting [Selected images] shows the index display of images in the album.

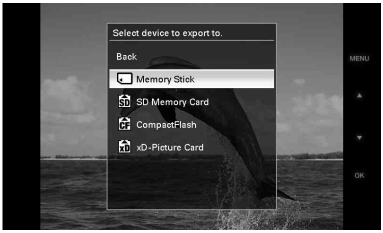
If you select [This image] or [All images], go to step 5 to select the device to which you want to export.

4 If you selected [Selected images], specify the image to export.

① Press ←/→/↓/↑ to select the image you want to export and then press ⊕.
Check mark will be placed on each selected image. Repeat this operation to export multiple images at the same time.
To cancel the selection, select images to cancel and then press ⊕ to delete check mark.

② Press MENU.
The screen for selecting the device to which to export is displayed.

5 Press ↓/↑ to select the device to which to export the image and then press ⊕.



6 The confirmation screen is displayed after exporting is finished, and then press ⊕.

The image is copied to the specified device.

Note

Do not turn off the power or remove the memory card during exporting. Doing so may damage the photo frame or memory card, or damage the data.

Tip

To perform this operation from the photo frame, press MENU, press the direction buttons to select the item, and then press ⊕ ENTER.

Deleting an image

1 Press MENU.
The menu is displayed.

2 Press ↓/↑ to select [Delete] and then press ⊕.
The Delete menu is displayed.

3 Press ↓/↑ to select [This image], [Selected images] or [All images] and then press ⊕.
[This image]: Deletes the image currently displayed.

[Selected images]: Deletes the selected image from the image list.

[All images]: Deletes all images in the device displayed.

[Selected images] shows the images in the device which are currently displayed as index view.

If you select [This image] or [All images], go to step 5 to confirm the operation.

4 If you selected [Selected images], specify the image to delete.
① Press ←/→/↓/↑ to select the image to delete and then press ⊕.
Check mark will be placed on each selected image. Repeat this operation to delete multiple images at the same time.
To cancel the selection, select images to cancel and then press ⊕ to delete check mark.
② Press MENU.
The delete confirmation screen is displayed.

5 Press ↓/↑ to select [Yes] and then press ⊕.
The image is deleted.

Tip

To perform this operation from the photo frame, press MENU, press the direction buttons to select the item, and then press ⊕ ENTER.

Format of internal memory

When you use [Format internal memory] in [Various Settings] menu, you can format the internal memory.

Notes

- On slideshow display, you cannot delete the images. Change the display mode to single image display or index image display.
- When the message [Cannot delete a protected image.] appears on the screen, the image file was set to Read Only on a computer. In this case, connect the photo frame to a computer, and delete this file by using the computer.

Changing the various settings

Setting procedure

You can change display, slideshow, brightness, language, and other settings of the photo frame. It is also possible to reset the settings to their factory defaults and format the intenal memory.

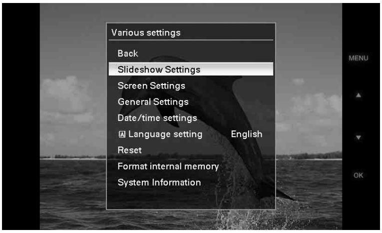
Note

Only internal memory can be formatted.

1 Press MENU.

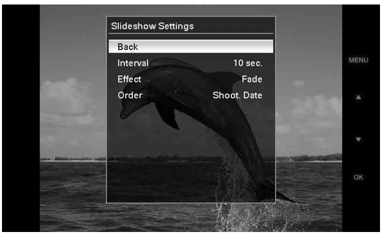
The menu is displayed.

2 Press ↓/↑ to select [Various settings] and then press ⊕ to display the Various settings screen.



3 Press ↓/↑ to select the item you want to change and then press ⊕.

The setting screen of the selected item is displayed.



For example, when [Slideshow Settings] is selected.

4 Press ↓/↑ to select the item you want to change and then press ⊕.

This enables you to set each of the items (page 30).

Note

When the photo frame is, for instance, displaying a slideshow, some items are unavailable for changing the settings. They are displayed in gray and cannot be selected.

5 Press ↓/↑ to select a setting value and then press ⊕.

Each time you press ↓/↑ (↓/↑ from the photo frame), the setting value changes. In the case of a numerical value, press ↑ to increase the value and press ↓ to decrease the value.

If you press ⊕, the setting is confirmed.

6 Press MENU.

The menu closes.

Tips

- To perform this operation from the photo frame, press MENU, press the direction buttons to select the item, and then press -✦- ENTER.
- To reset the settings to their factory defaults, select [Reset] and then press ⊕. Adjusted values except clock setting are reset to default settings.

Advanced operations

Continued

Items to set

*: Factory default settings

Item	Setting	Description	
Slideshow Settings	Interval	Set a value from 3 sec., 10 sec.*, 30 sec., 1 minute, 5 min., 30 min., 1 hour, 3 hours, 12 hours, 24hours for the interval between images when the pattern is single view or calendar view.	
	Effect	Center cross	Transitions to the next image as though the previous image is being pushed from the center to the four corners.
		Vert. blinds	Transitions to the next image as though blinds are being lowered vertically.
		Horiz. blinds	Transitions to the next image as though blinds are being pulled horizontally.
		Fade*	Transitions to the next image by fading out the current image and fading in the next image.
		Wipe	Transitions to the next image as though the current image is being wiped off the screen to reveal the next image.
		Random	Uses the above five effects randomly.
	Order	Shoot. Date*	Displays images in the order of shooting date. **Notes** • The images may be displayed in the order of modification date instead of shooting date (page 34). • When the number of images exceeds 1,500, the images cannot be displayed by date. The images are listed in the order of their file names.
		Random	Displays images randomly.

*: Factory default settings

Item	Setting	Description	
Screen Settings	LCD backlight	Allows you to set the brightness of the backlight of the LCD screen to a level from 1 to 10*.	
	Brightness	Allows you to set the luminance of images to a level from 1, 2*, 3.	
	Display Mode	You can select the view mode for the single image display. **Note** The original image data will not change.	
		Entire image*	Displays an entire image enlarged to proper size. (An image may be displayed with margins on the top, bottom, left and right.)
		Fit to screen	Zooms in at the center of the image enough to fill the whole screen.
	Auto image orientation	ON*/OFF: You can set the photo frame to automatically detect and rotate the orientation of images.	
	Auto display orientation	ON*/OFF: When the photo frame is in portrait orientation, you can set it to automatically detect and rotate the images to their proper orientation.	
General Settings	Auto power ON/OFF	Power-ON timer	You can set the timer (hour/minute) for the power to turn on automatically. Select [ON] to set [Auto ON time].
		Power-OFF timer	You can set the timer (hour/minute) for the power to turn off automatically. Select [ON] to set [Auto OFF time].
	Image file size	Album*	Compresses images and saves them to the internal memory. You can save more images.
		Original	Saves images to the internal memory without compressing them. There is no deterioration, but you can save fewer images.
	Sony logo	ON*/OFF: You can set whether the photo frame's Sony logo lights or not.	
Date/time settings	Sets the date, time, first day of a week, etc. (→page 16)		
Language setting	Sets the display language on the LCD screen. Japanese, English*, French, Spanish, German, Italian, Russian, Chinese (Simplified), Chinese (Traditional), Dutch **Note** Default language setting may vary in some regions.		
Reset	Returns all settings to their factory defaults except for calendar and clock setting.		
Format internal memory	You can format the internal memory. **Notes** • All the images added to the internal memory will be deleted. • Do not format the internal memory by using connection to PC or other external devices.		

Continued

*: Factory default settings

Item	Setting	Description	
System Information	Version	Displays the version of the firmware of the photo frame.	
	Internal memory	Memory capacity	Indicates the maximum amount of space available in internal memory in the initial state.
		Remaining capacity	Indicates the amount of free space currently available in internal memory.

Connecting to a computer

You can connect to a computer to view and copy images of the internal memory of the photo frame to the computer, and copy images of the computer to the photo frame.

System requirements

To connect a computer to use the picture frame, your computer must satisfy the following recommended system requirements.

■ Windows

Recommended OS: Microsoft Windows Vista, Windows XP Service Pack 2 or Windows 2000 Professional Service Pack 4

(pre-installed at the time of shipment from the factory)

Port: USB port

■ Macintosh

Recommended OS: Mac OS X (10.4) or later

(pre-installed at the time of shipment from the factory)

Port: USB port

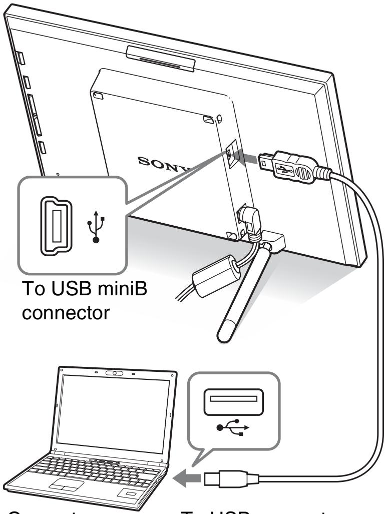
Notes

- If multiple USB devices are connected to a computer or if a hub is used, a problem may occur.
- You cannot operate the photo frame from another USB device being connected simultaneously.
- Do not disconnect the USB cable during data communication.
- Operation with all computers that satisfy the recommended system requirements is not guaranteed.
- The photo frame has been demonstrated as operable with connecting to PC or Sony digital photo printer. When other devices are connected to the photo frame, these devices may not recognize the internal memory of the photo frame.

Connecting to a computer to exchange images

1 Connect the photo frame to the AC power source. (→page 13)

2 Connect the computer and photo frame with a commercially available USB cable (optional: VMC-14UMB2)*.



* This cable may not be available in all countries.

Note

Use a mini B-Type USB cable that is less than 3 meters long.

3 Press ⏻ (on/standby) on the photo frame to turn on the power.

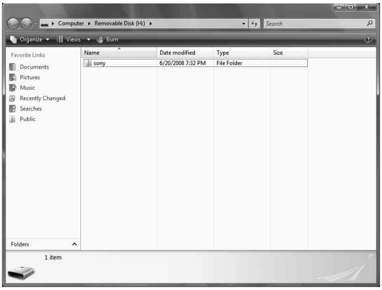
4 When [AutoPlay] window appears on the computer display, click [Open folder to view files].

If [AutoPlay] window does not appear, click [Computer] in the Start menu, and then open the removable disc.

Continued

5 Move the cursor in this window and right click, and then click [New] - [Folder].

Name this new folder. In this manual, the folder name “sony” is used for an example.



6 Double click to open this “sony” folder.

7 Open the folder that contains the image files you want to copy, and then copy the image files by using drag-and-drop.

Notes

- When saving images from a computer to the internal memory, make a folder in the internal memory and save the images in this folder. If you do not make a folder, you can only save up to 512 images. In addition, the number of images may reduce depending on the file name length or character type.
- When images are edited or saved on a computer, the modification date of the images may change. In this case, the index display may not be displayed in the order of shooting date due to the modification of shooting date.
- When images of the computer are saved to the internal memory of the photo frame, the image files are saved without being compressed. As a result, fewer images may be able to be saved to the internal memory of the photo frame.
- Image files made or edited on a computer may not be displayed. Image files set to “Read Only” on a computer cannot be deleted on the photo frame. Cancel “Read Only” before saving image files to the photo frame from a computer.

If an error message appears

If an error occurs, one of the following error messages may be displayed on the LCD screen of the photo frame. Follow the corresponding solution below to solve the problem.

Error message	Meaning/Solutions
No Memory Stick. / No CompactFlash card. / No SD Memory Card. / No xD-Picture Card.	• A memory card is not inserted in a slot. Insert a memory card in the corresponding slot. (→page 17)
An incompatible Memory Stick is inserted. / An incompatible CompactFlash card is inserted. / An incompatible SD Memory Card is inserted. / An incompatible xD-Picture Card is inserted.	• An unsupported memory card is inserted. Use a memory card that is supported by the photo frame.
No images on file.	• There are no image files in the memory card. Use a memory card containing image files that can be displayed with the photo frame.
Cannot delete a protected image.	• To delete a protected file, cancel the protection on your digital camera.
Media is protected. Remove protection then try again.	• The memory card is write-protected. Slide the write-protect switch to the enable position. (→page 42)
The Memory Stick is full. / The CompactFlash card is full. / The SD Memory Card is full. / The xD-Picture Card is full.	• No more data can be saved because the memory card is full. Delete images, or use a memory card with free space.
Error reading the Memory Stick. / Error reading the CompactFlash card. / Error reading the SD Memory Card. / Error reading the xD-Picture Card.	• An error has occurred. If this error message is displayed frequently, check the status of the memory card with a device other than the photo frame.
Write error in the Memory Stick. / Write error in the CompactFlash card. / Write error in the SD Memory Card. / Write error in the xD-Picture Card.	
The Memory Stick is read only.	• A "Memory Stick-ROM" is inserted. To save the images, use the "Memory Stick" recommended (→page 41).
The Memory Stick is protected.	• A protected "Memory Stick" is inserted. To edit and save the images, use an external device to remove protection.
Media format not supported.	• The images cannot be displayed, if the image file is not supported by the photo frame.
Cannot open the image.	

If trouble occurs

Before submitting the photo frame for repair, try using the following guidance to solve the problem. If the problem persists, consult with your Sony dealer or Sony service facilities.

Power supply

Symptom	Check item	Cause/Solutions
The power cannot be turned on.	• Is the power plug inserted properly?	→ Insert the power plug properly.

Displaying images

If the power is turned on but images are not displayed or the settings of the operation screen cannot be configured, confirm the following check items.

Symptom	Check item	Cause/Solutions
No images are displayed on the screen.	• Is a memory card inserted properly?	→ Insert a memory card properly. (→ pages 17)
	• Does the memory card contain images saved with a digital camera or other device?	→ Insert a memory card containing images. → Check the file formats that can be displayed. (→ page 44)
	• Is the file format compatible with the DCF?	→ A file that is not compatible with DCF may not be able to be displayed with the photo frame, even if it can be displayed with a computer.
Some images are not displayed.	• Are the images displayed in the index view?	→ If the image is displayed in the index view but cannot be displayed as single image, the image file may be damaged even though its thumbnail preview data is fine. → A file that is not compatible with DCF may not be able to be displayed with the photo frame, even if it can be displayed with a computer.
Images are not played back in the order of shooting date.	• Were these images saved from a computer? • Were these images edited on a computer?	→ When images are saved on a computer, the modification date of the image files may change. Therefore, images may be played back in the order of modification date.

Symptom	Check item	Cause/Solutions
Some images are not displayed.	• Does the mark displayed below appear in the index view?  • Were the images created with an application on a computer?	→ If the mark shown on the left is displayed, the image file may not be supported by the photo frame because, for example, it is a JPEG file that was created with your computer. Also, the image file may be supported, but not contain the thumbnail data. Select the mark and press ⊕ to change the screen to the single image display. If the mark on the left is displayed again, the image cannot be displayed because the image file is not supported by the photo frame.
	• Does the mark displayed below appear in the index view? 	→ If the mark shown on the left is displayed, the image file is supported by the photo frame, but the thumbnail data or image itself cannot be opened. Select the mark and press ⊕ to change the screen to the single image display. If the mark shown on the left is displayed again, the image cannot be displayed.
	• Are there more than 9,999 images in the memory card?	→ The photo frame can play, save, delete, or otherwise handle up to 9,999 image files.
	• Did you rename the file with a computer or other device?	→ If you named or renamed the file on your computer and the file name includes characters other than alphanumeric characters, the image may not be able to be displayed on the photo frame.
	• Are there eight or more levels in the folder hierarchy of the memory card?	→ The photo frame cannot display images saved in a folder that is over eight levels deep.
The file name is not displayed properly.	• Did you rename the file with a computer or other device?	→ If you named or renamed the file on your computer and the file name includes characters other than alphanumeric characters, the file name may not be able to be displayed properly on the photo frame. Also, for a file created on a computer or other device, a maximum of eight characters from the beginning of the file name can be displayed. **Note** Only alphanumeric characters can be displayed.

Symptom	Check item	Cause/Solutions
Blank areas appear at the top and bottom.	• Is the image extremely high or wide?	→ If an image is extremely high or wide, blank areas may appear because of the ratio between the height and width.

Saving and deleting images

Symptom	Check item	Cause/Solutions
Cannot save an image.	• Is the memory card write-protected?	→ Cancel write-protection and try saving again.
	• Is the write-protect switch of the memory card in the [LOCK] position?	→ Slide the write-protect switch to the enable position.
	• Is the memory card full?	→ Replace the memory card with one with sufficient free space. Or, delete any unnecessary images. (→page 28)
	• Is the internal memory full?	→ Delete any unnecessary images. (→page 28)
	• Did you save images from a computer to the internal memory without making a folder in the internal memory?	→ If you do not make a folder, you can only save up to 512 images. In addition, the number of images may reduce depending on the file name length or character type. When you save images to the internal memory on a computer, be sure to make a folder in the internal memory and save images in this folder.
Cannot delete an image.	• Is the memory card write-protected?	→ Use the device you are using to cancel write-protection and try deleting again.
	• Is the write-protect switch of the memory card in the [LOCK] position?	→ Slide the write-protect switch to the enable position.
	• Are you using “Memory Stick-ROM”?	→ It is not possible to delete an image from or format “Memory Stick-ROM”.
An image was deleted accidentally.	—	→ An image cannot be recovered once it is deleted.

Connecting a computer

Symptom	Check item	Cause/Solutions
Nothing happens even if the USB cable is disconnected and then connected.	—	→ An over current error may have occurred with the photo frame. To recover from the error, turn the power of the photo frame off and then back on.

Photo frame

Symptom	Check item	Cause/Solutions
Nothing happens even if you operate the photo frame.	—	→ Disconnect and reconnect the AC adaptor. And then turn the power on again.

Remote control

Symptom	Check item	Cause/Solutions
Nothing happens even if you operate the remote control.	• Is the battery inserted in the remote control properly?	→ Replace a new battery. (→page 12) → Insert a battery. (→page 12) → Insert a battery in proper orientation. (→page 12)
	—	→ Point the top end of the remote control towards the remote sensor on the photo frame. (→page 12) → Remove any obstruction between the remote control and remote sensor.

Precautions

On safety

- Be careful not to set or drop any heavy objects on the power cord, or to damage the power cord in any way. Never operate this photo frame with a damaged power cord.
- Should any solid object or liquid fall into the cabinet, unplug the photo frame and have it checked by qualified personnel before operating it any further.
- Never disassemble the photo frame.
- To disconnect the power cord, pull it out by the plug. Never pull the power cord itself.
- When the photo frame is not going to be used for an extended period of time, disconnect the power cord from the wall outlet.
- Do not handle the photo frame roughly.
- To reduce the risk of electrical shock, always unplug the photo frame from the electrical outlet before cleaning and servicing the photo frame.

On installation

- Avoid placing the photo frame in a location subject to:
  – vibration
  – humidity
  – excessive dust
  – direct sunlight
  – extremely high or low temperatures
- Do not use electrical equipment near the photo frame. The photo frame will not work properly in electromagnetic fields.
- Do not place heavy objects on the photo frame.

On the AC adaptor

- Even if your photo frame is turned off, AC power (house current) is still supplied to it while connected to the wall outlet via the AC adaptor.
- Be sure to use the AC adaptor supplied with the photo frame. Do not use other AC adaptors, as this may cause a malfunction.
- Do not use the supplied AC adaptor for other devices.
- Do not use an electrical transformer (travel converter), as this may cause overheating or a malfunction.
- In case the cord of the AC adaptor is damaged, do not use it any longer, as this may be dangerous.

On moisture condensation

If the photo frame is brought directly from a cold location to a warm location or placed in an extremely warm or humid room, moisture may condense inside the unit. In such cases the photo frame will probably not work properly and may even develop a fault if you persist in using it. If moisture condensation occurs, unplug the AC adaptor of the photo frame and do not use the photo frame for at least one hour.

On transport

When you transport the photo frame, remove the memory card, external devices, AC adaptor and connected cables from the photo frame and put the photo frame and its peripherals in the original box with the protective packaging.

If you no longer have the original box and packing parts, use similar packing material so that the photo frame will not be damaged while being transported.

On cleaning

Clean the photo frame with a soft dry cloth, or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine, which may damage the finish.

On restrictions on duplication

TV programs, films, video tapes, portraits of other people or other materials may be copyrighted. Unauthorized use of such materials may infringe the provisions of the copyright law.

About the memory cards

"Memory Stick"

Types of "Memory Stick" that the photo frame can use

With the photo frame, you can use the following types of "Memory Stick"*1:

Type of "Memory Stick"	Displaying	Deleting/ Saving
"Memory Stick"*2 (Not compatible with "MagicGate")	OK	OK
"Memory Stick"*2 (Compatible with "MagicGate")	OK*5	OK*5
"MagicGate Memory Stick"*2	OK*5	OK*5
"Memory Stick PRO"*2	OK*5	OK*5
"Memory Stick PRO-HG"*2	OK*5*6	OK*5*6
"Memory Stick Micro"*3 ("M2"*4)	OK*5	OK*5

*1 The photo frame supports FAT32. The photo frame has been demonstrated as operable with a "Memory Stick" with a capacity of 8GB or less manufactured by Sony Corporation. However, we do not guarantee the operations of all the "Memory Stick" media.

*2 The photo frame is equipped with a slot compatible with both standard-size and Duo-size media. Without a "Memory Stick Duo" adaptor, you can use both a standard-size "Memory Stick" and the compact-size "Memory Stick Duo".

*3 When using a "Memory Stick Micro" with the photo frame, always insert it into an M2 adaptor.

*4 "M2" is an abbreviation for "Memory Stick Micro". In this section, "M2" is used to describe "Memory Stick Micro".

*5 Data reading/recording that requires "MagicGate" copyright protection cannot be performed. "MagicGate" is the general name of a copyright

Continued

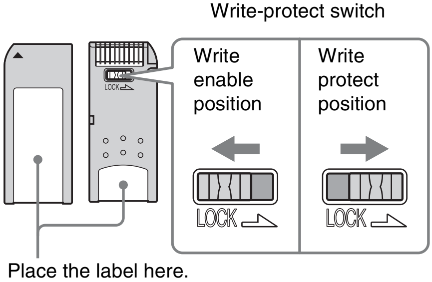
Additional information

protection technology developed by Sony using authentication and encryption.

*6 The photo frame does not support 8 bit parallel data transfer.

Notes on use

- For the latest information on the "Memory Stick" types that the photo frame supports, see the "Memory Stick" compatibility information on the Sony web site: http://www.memorystick.com/en/support/support.html
(Select the area where you use your photo frame, and then select "Digital Photo Frame" from each area page.)
- Do not insert more than one "Memory Stick" at the same time, which may cause trouble with the photo frame.
- If you use a "Memory Stick Micro" with the photo frame, "Memory Stick Micro" needs to be inserted into an "M2" adaptor.
- If you insert a "Memory Stick Micro" into the photo frame without an "M2" adaptor, you may be unable to remove the "Memory Stick Micro".
- If you insert a "Memory Stick Micro" into an "M2"adaptor, and insert the "M2" adaptor into a "Memory Stick Duo" adaptor, the photo frame may not operate properly.
- When you format a "Memory Stick", use the format function of your digital camera. If you format a "Memory Stick" with your computer, images may not be displayed properly.
- When you format a "Memory Stick", all the data including protected image files will be erased. To avoid erasing important data by accident, make sure to check the contents of the "Memory Stick" before formatting.
- You cannot record, edit or delete data if you slide the write-protect switch to LOCK.



- Do not attach any other material than the supplied label on the labelling position. When you attach the supplied label, be sure to attach it to the labelling position. Be careful that the label does not stick out.

SD memory card

The SD memory card slot of the photo frame allows you to use the following:

- SD memory card*1
- miniSD card, microSD card
(An adaptor is necessary.)*2
- SDHC memory card*3
- MMC standard memory card*4

We do not guarantee proper operations for all types of SD memory cards and MMC standard memory cards.

*1 The photo frame has been demonstrated as operable with an SD memory card with a capacity of 2 GB or smaller.

*2 Some commercially available card adaptors have projected terminals on the rear. This type of adaptor may not work properly with the photo frame.

*3 The photo frame has been demonstrated as operable with an SDHC memory card with a capacity of 8 GB or less.

*4 The photo frame has been demonstrated as operable with an MMC standard memory card with a capacity of 2 GB or less.

Notes on use

Data reading/recording that requires copyright protection cannot be performed.

xD-Picture Card

With the xD-Picture Card slot of the photo frame, you can use an xD-Picture Card*5. Not all the memory card operations are supported and we do not guarantee proper operations for all types of xD-Picture Card.

*5 The photo frame has been demonstrated as operable with an xD-Picture Card with a capacity of 2 GB or less.

CompactFlash card

The CompactFlash card slot of the photo frame allows you to use the following:

- CompactFlash Memory Card (Type I/ Type II) and CF+Card (Type I/Type II)-compatible CompactFlash Card*6
- Microdrive

You can also use the Smart Media card by using a commercially available CompactFlash card adaptor*7.

However, we do not guarantee proper operations for all types of CompactFlash cards.

*6 Use a CompactFlash card with a power specification of 3.3V or 3.3V/5V. You cannot use a type for 3V or 5V only. Do not insert other types of CompactFlash card into the photo frame's insertion slot. The photo frame may be damaged. The photo frame has been demonstrated as operable with a CompactFlash with a capacity of 8 GB or smaller.

*7 When using a commercially available CompactFlash card adaptor, refer to the operating instructions of the adaptor you use for how to install the card and adaptor. When using the CompactFlash card adaptor, the write-protected card may not work properly.

Notes on using a memory card

- When using a card, make sure to check the correct insertion direction of the card and the correct insertion slot.
- When inserting the memory card, it will only insert the portion of the way, so do not try to force it as this could damage the memory card and/or photo frame.
- Do not remove a card or turn off the photo frame while the photo frame is reading or writing data, or the access indicator is flashing. Otherwise, data may be rendered unreadable or erased.
- We recommend that you save a backup of important data.
- Data processed with the computer may not be displayed with the photo frame.
- When you carry or store a card, put it in the case supplied with it.
- Do not touch the terminal of a card with your hand or a metal object.
- Do not strike, bends or drop a card.
- Do not disassemble or modify a card.
- Do not expose a card to water.
- Do not use or store a card under the following conditions:
  - Locations beyond the required operational conditions including locations such as the hot interior of a car parked in the sun and/or in the summer, the outdoors exposed to direct sunlight, or a place near a heater.
  - Humid locations or locations with corrosive substances present
  - Locations subject to static electricity or electrical noises

Specifications

■ Photo frame

LCD screen

LCD panel:
DPF-D70: 7 inches, TFT active matrix
DPF-D80: 8 inches, TFT active matrix
DPF-D100: 10.4 inches, TFT active matrix

Total number of dots:
DPF-D70: 1 152 000
(800 × 3 (RGB) × 480) dots
DPF-D80/D100: 1 444 000
(800 × 3 (RGB) × 600) dots

Display aspect ratio

DPF-D70: 15:9
DPF-D80/D100: 4:3

Effective display area

DPF-D70: 7 inches
DPF-D80: 8 inches
DPF-D100: 10.4 inches

LCD backlight life

DPF-D70: 20 000 hours
DPF-D80: 15 000 hours
DPF-D100: 10 000 hours
(before brightness of the backlight being reduced to half)

Maximum decodable file size

100 MB

Input/Output connectors

USB connector (miniB, full-speed)
Slots
"Memory Stick PRO" slot
SD memory card/MMC/
xD-Picture Card slot
CompactFlash card/Microdrive slot

Compatible image file formats

JPEG: DCF 2.0 compatible, Exif 2.21 compatible, JFIF*1
RAW (preview only*2): SRF, SR2, ARW (2.0 or lower version)
(Some image file formats are not compatible.)

Maximum number of pixels that can be displayed

8 000 (H) × 6 000 (V) pixels

File system

FAT12/16/32,
sector size of 2 048 bytes or smaller

Image file name

DCF format, 256 characters, within 8th hierarchy

Maximum number of files that can be handled

9 999 files for a memory card/an external device

Internal memory capacity*3

256 MB (Approx. 500 images*4 can be saved.)

Power requirements

DC IN jack, DC 12V

Power consumption

DPF-D70: 7.7 W
DPF-D80: 8.9 W
DPF-D100: 10.9 W

Operating temperature

5 °C to 35 °C (41 °F to 95 °F)

Dimensions

[Without the stand]
DPF-D70:
Approx. 207 × 137 × 38.5 mm
(8 $^1/_4$ × 5 $^1/_2$ × 1 $^9/_{16}$ inches)
DPF-D80:
Approx. 232.5 × 167 × 38.5 mm
(9 $^1/_4$ × 6 $^5/_8$ × 1 $^9/_{16}$ inches)
DPF-D100:
Approx. 281.7 × 206.9 × 38.5 mm
(11 $^1/_8$ × 8 $^1/_4$ × 1 $^9/_{16}$ inches)
(width/height/depth)

[With the stand spread out]
DPF-D70:
Approx. 207 × 137 ×125 mm
(8 $^1/_4$ × 5 $^1/_2$ × 5 inches)
DPF-D80:
Approx. 232.5 × 167 × 137.3 mm
(9 $^1/_4$ × 6 $^5/_8$ × 5 $^1/_2$ inches)

DPF-D100:
Approx. 281.7 × 206.9 × 165 mm
(11 1/8 × 8 1/4 × 6 1/2 inches)
(width/height/depth)

Mass

DPF-D70: Approx. 550 g (1 lb 3 oz)
DPF-D80: Approx. 720 g (1 lb 9 oz)
DPF-D100: Approx. 1 050 g (2 lb 5 oz)
(excluding the AC adaptor)

Included accessories

See "Checking included items" on page 9.

■ Supplied AC adaptor

The following are common specifications of DPF-D70/D80/D100.

Power requirements

~ 100 V to 240 V, 50/60 Hz

Rated output voltage

⎓ 12 V 1.2 A

Dimensions

Approx. 34 × 72 × 69 mm
(1 3/8 × 2 7/8 × 2 3/4 inches)
(width/height/depth)
(excluding the protruding parts)

Mass

Approx. 110 g (4 oz)

See the label of AC adaptor for more details.

Design and specifications are subject to change without notice.

*1: Baseline JPEG with 4:4:4, 4:2:2, or 4:2:0 format

*2: RAW files are displayed as thumbnail preview.

*3: The capacity is calculated as 1 MB is equivalent to 1 000 000 bytes. The actual capacity is reduced as files for management and applications are included. Approx. 200 MB can be used for your actual operation.

*4: Approximate number is shown when the images taken by 1 500 000 pixels equivalent camera are saved. The value may vary depending on the shooting condition.

Customer support home page

The latest support information is available at the following home page address:

http://www.sony.net/

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